



CITY OF LOUISVILLE

JUNE 2020 MONTHLY REPORT

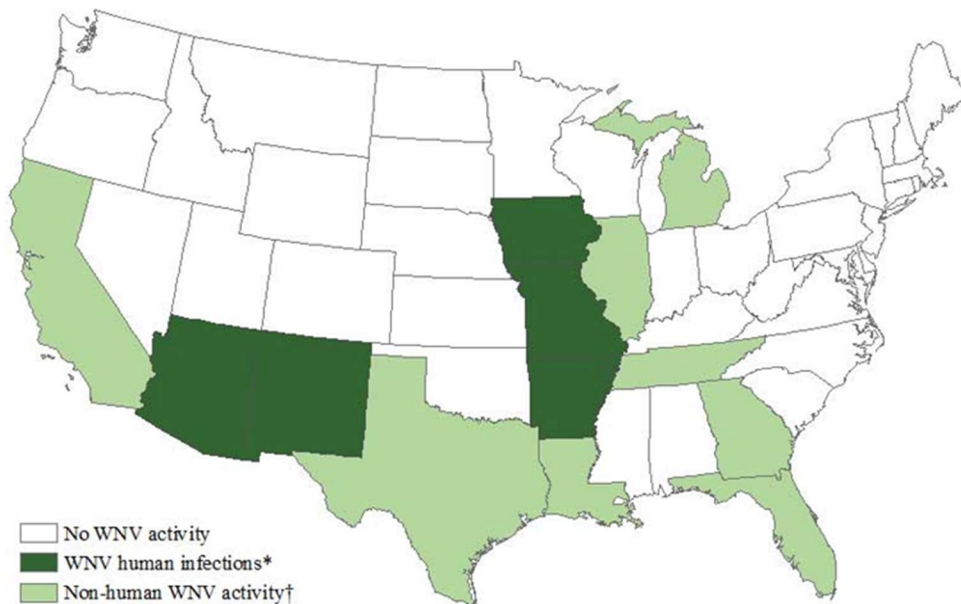
JULY 8TH, 2020

West Nile Virus Risk

The Colorado Department of Public Health & Environment (CDPHE) began testing mosquito samples in Disease Week 25 (June 14th). As of July 3rd, there have been no reports of West Nile virus positive mosquitoes in the state of Colorado.

As of June 30th, the Centers for Disease Control and Prevention (CDC) currently reports 8 human West Nile virus infections in five (5) states and no deaths. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in eight (8) states. While West Nile virus activity remains low, and we do have not documented viral activity in Colorado, we are likely to see increased disease risk as the summer progresses and encourage personal protective measures including draining water from your property, avoiding the outdoors at dawn and dusk, defending yourself by wearing repellent and dressing appropriately.

West Nile Virus Activity by State – United States, 2020 (as of June 30, 2020)



To date Boulder County Public Health (BCPH) reports that 8 WNV mosquito samples were submitted for testing by the Colorado Department of Public Health and Environment (CDPHE) in Week 27 (June 28th), and all were negative.

By comparison, in June 2019 BCPH submitted a total of 30 WNV pools for testing, through Week 28, and all were negative. A total of 8,872 mosquitoes were trapped in the Town of Erie and only 1.4% were *Culex*.

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Wear Your Repellent!

Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

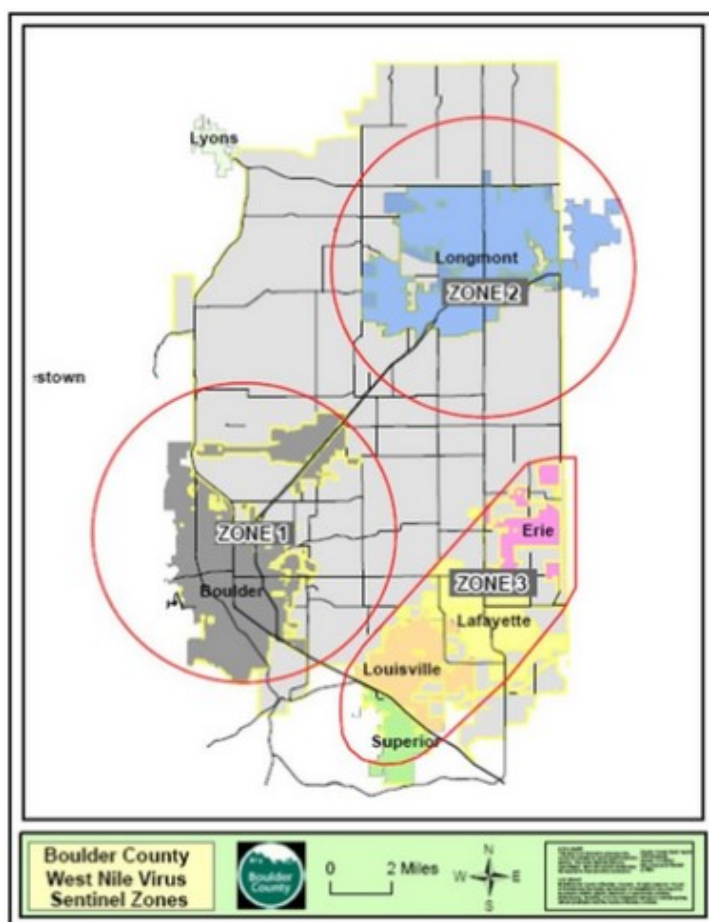
Adult mosquito abundance in Boulder and Weld County has exhibited higher-than-average nuisance mosquito numbers and lower than average *Culex* numbers. To date in the Town of Erie, of the 10,166 mosquitoes trapped only 13.6% were *Culex*. Mosquito abundance is above average in the Town of Erie this month.

The Vector Index for all Boulder County Zones is currently at zero indicating low risk of viral transmission to humans although this number is expected to rise as temperatures remain high and very dry conditions persist.

Boulder County Vector Index 2020 ¹			
	Sentinel Zone 1 ²	Sentinel Zone 2 ³	Sentinel Zone 3 ⁴
Season Week	Vector Index	Vector Index	Vector Index
Week 23 (May 31-June 6)	----	----	----
Week 24 (June 7-13)	----	----	----
Week 25 (June 14-20)	----	----	----
Week 26 (June 21-27)	----	----	----
Week 27 (June 28-July 4)	0.00	0.00	0.00

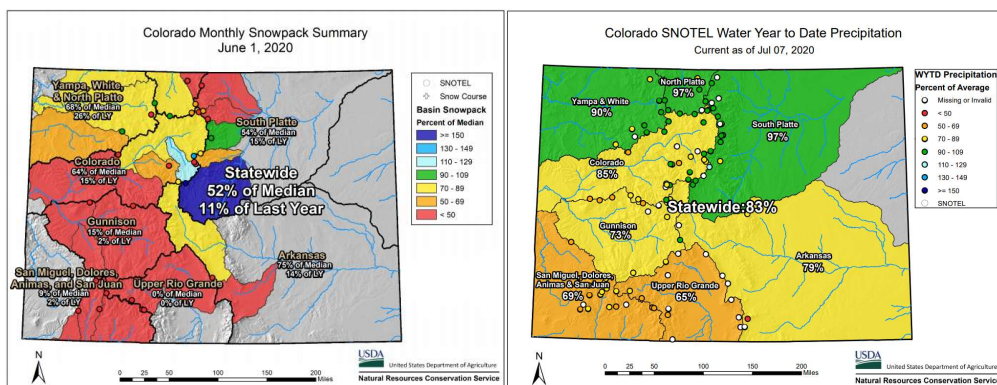
1. Reported by BCPH as of July 3, 2020

2. City of Boulder; 3. Longmont; 4. Erie, Lafayette, Louisville, Superior

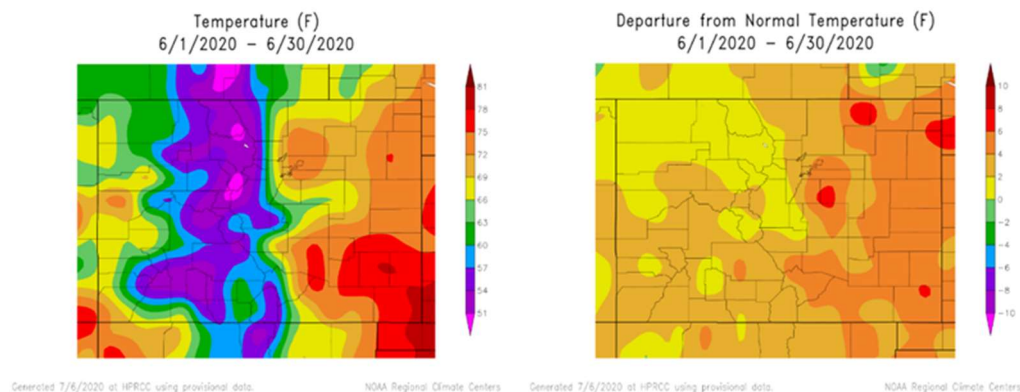


Weather

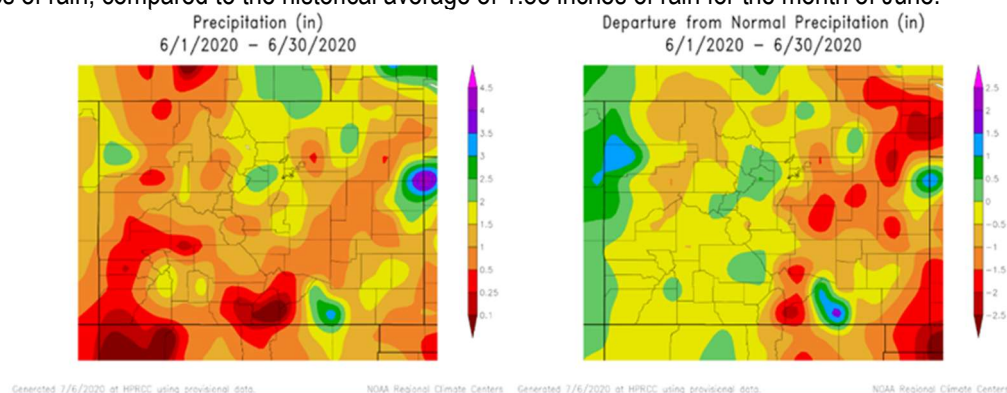
VDCI field began field inspections throughout Boulder County in May and unlike like 2019, June temperatures were mostly above average for the month. Snowpack levels were far above average across most of the state and as of June 1st Colorado was 52% of the median for normal snowpack, and only 11% of last year. As of July 7th, Statewide precipitation is 83% of average compared with last year at 124% of average. The South Platte River reaching 97% of its monthly average compared to last year at 119%. *Culex* obtained from larval sites has remained low as a percentage of all mosquitoes collected. In the early season months VDCI field technicians focused larval site inspections on larger water bodies and mandatory sites known to produce larvae in the early season.



According to the High Plains Regional Climate Center the average temperature in Boulder County was 69.2° F during the month of June, compared to the historical average of 66.4° F, a departure of 2.8° F greater than 2019.



According to the High Plains Regional Climate Center precipitation in Boulder County was above average, 2.10 inches of rain, compared to the historical average of 1.85 inches of rain for the month of June.



Larval Control Operations

VDCI field technicians performed 166 site inspections as part of the inspection and larviciding program in the City of Louisville. Of the 166 sites inspected, 111 were wet (66.9%) and 17 (10.2%) sites were producing mosquito larvae. 1.1 acres were treated with larvicides.

In June 2019, VDCI field technicians performed 63 site inspections in the City of Louisville. Of the 63 inspections, 52 (82.5%) sites were wet and 8 (15.4%) sites were producing mosquito larvae. 0.98 acres were treated with larvicides.

Adult Mosquito Population Surveillance

There were 15 light traps set in City of Louisville during June 2020 that collected a total of 3002 mosquitoes. Of these, there were 2,825 (94.1%) *Aedes* spp., 0 (0.0%) *Anopheles* spp., 162 (5.4%) *Culex* spp. and 15 (0.5%) *Culiseta* spp. mosquitoes collected. There was an average of 200.1 mosquitoes per trap night and 10.8 *Culex* mosquitoes per trap night in June of 2020.

12 mosquito surveillance traps set in June 2019, in the City of Louisville, collected a total of 330 mosquitoes. Of these there were 306 (92.7%) *Aedes* spp., 0 (0.0%) *Anopheles* spp., 10 (3.0%) *Culex* spp. and 14 (4.2%) *Culiseta* spp. mosquitoes collected. There was an average of 27.5 mosquitoes per trap night and 0.08 *Culex* mosquitoes per trap night in June of 2019.

2020 City of Louisville Trap Composite Data

Total number of trap/nights set:	15
Total number of mosquitoes collected:	3,002.0
Average mosquitoes per trap/night:	200.1
Average Culex per trap/night:	10.8

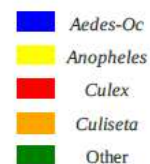
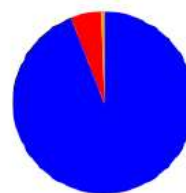
Species collected and abundance:

<i>Aedes dorsalis</i>	4.0	0.1%
<i>Aedes increpitus</i>	80.0	2.7%
<i>Aedes melanimon</i>	1,683.0	56.1%
<i>Aedes trivittatus</i>	20.0	0.7%
<i>Aedes vexans</i>	1,038.0	34.6%
<i>Culex pipiens</i>	6.0	0.2%
<i>Culex salinarius</i>	8.0	0.3%
<i>Culex tarsalis</i>	148.0	4.9%
<i>Culiseta inornata</i>	15.0	0.5%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	2,825	94.1%
<i>Anopheles</i>	0	0.0%
<i>Culex</i>	162	5.4%
<i>Culiseta</i>	15	0.5%
Other	0	0.0%



Adult Mosquito Control Operations

During the month of June 2020, 58.0 gallons of Talstar Pro mosquito adulticide barrier were applied via daytime backpack to three adult control locations on June 5th, June 12th and June 25th.

In June 2019, no adult mosquito control operations were performed.



Ground Adulticide Applications

Start Date: 06/01/2020 End Date: 06/30/2020

City of Louisville

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
Annette Brand Park Applications								
June 2020	06/12/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.1	4.0
Total Talstar Pro Applied:								4.0
Coal Creek @ Aspen Way Applications								
June 2020	06/05/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.3	14.0
	06/12/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.3	14.0
	06/25/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.3	12.0
Total Talstar Pro Applied:								40.0
Coal Creek @ Dillon Way Applications								
June 2020	06/12/2020		Talstar Pro (279-3206)	1:128	0.0	0.0	0.3	14.0
Total Talstar Pro Applied:								14.0
Coal Creek @ Dillon Way Totals:					0.0	0.0	1.3	58.0
Grand Totals:					0.0	0.0	1.3	58.0

Public Relations

VDCI received nine (9) phone calls from City of Louisville residents in June 2020. There were five (5) mosquito annoyance calls received from residents wanting to know when adult mosquito control operations would begin. Residents were informed of the City's policy for adult control and associated action thresholds. There were two (2) report of standing water which was inspected for potential larval production habitat and treated as necessary and two (2) callers requested additional information.

VDCI has received zero renewed or new submissions in June from residents requesting to be placed on the adult control notification or shut off list.